

WIRELESS SIGNALING IN A LITHOGRAPHIC APPARATUS

ABSTRACT

A lithographic apparatus capable of wirelessly communicating control and power signals, is presented herein. In one embodiment, the apparatus comprises an illumination system to provide a beam of radiation, a support structure configured to support a patterning device that imparts the beam of radiation with a pattern in its cross-section, a substrate holder configured to hold a substrate, a projection system to project the patterned beam radiation onto a target portion of the substrate, and a wireless signaling system configured to transmit and receive information-bearing electromagnetic radiation. The wireless system comprises at least a transmitter to transmit the electromagnetic radiation and a first transducer configured to receive and convert the electromagnetic radiation into a first electrical signal containing the information which is used to control at least a portion of the support structure, the substrate table, the projection system, and the illumination system.